


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

<b>APPLICATION FOR PERMIT TO DRILL</b>				<b>1. WELL NAME and NUMBER</b> CWU 1478-22D		
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES		
<b>4. TYPE OF WELL</b> Gas Well Coalbed Methane Well: NO				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> CHAPITA WELLS		
<b>6. NAME OF OPERATOR</b> EOG Resources, Inc.				<b>7. OPERATOR PHONE</b> 435 781-9111		
<b>8. ADDRESS OF OPERATOR</b> 1060 East Highway 40, Vernal, UT, 84078				<b>9. OPERATOR E-MAIL</b> kaylene_gardner@eogresources.com		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU0284A		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	1214 FSL 2083 FEL	SWSE	22	9.0 S	22.0 E	S
<b>Top of Uppermost Producing Zone</b>	1635 FSL 1644 FEL	NWSE	22	9.0 S	22.0 E	S
<b>At Total Depth</b>	1635 FSL 1644 FEL	NWSE	22	9.0 S	22.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1635		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1240		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 840		<b>26. PROPOSED DEPTH</b> MD: 9589 TVD: 9529		
<b>27. ELEVATION - GROUND LEVEL</b> 4971		<b>28. BOND NUMBER</b> NM2308		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-225		

**ATTACHMENTS****VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> <b>WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER</b>	<input checked="" type="checkbox"/> <b>COMPLETE DRILLING PLAN</b>
<input type="checkbox"/> <b>AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)</b>	<input type="checkbox"/> <b>FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER</b>
<input type="checkbox"/> <b>DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)</b>	<input checked="" type="checkbox"/> <b>TOPOGRAPHICAL MAP</b>
<b>NAME</b> Mary Maestas	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b>	<b>DATE</b> 12/08/2009
<b>API NUMBER ASSIGNED</b> 43047508450000	<b>PHONE</b> 303 824-5526
<b>APPROVAL</b>	<b>EMAIL</b> mary_maestas@eogresources.com
 Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2300		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	2300	36.0			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9589		
Pipe	Grade	Length	Weight			
	Grade N-80 LT&C	9589	11.6			

## DRILLING PLAN

### MULTI-WELL PAD:

**CWU 1475-22D, CWU 1476-22D, CWU 1477-22D,  
CWU 1478-22D, CWU 1479-22D, CWU 1480-22D  
SW/SE, SEC. 22, T9S, R22E, S.L.B.&M..  
UINTAH COUNTY, UTAH**

### **1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

	CWU 1475-22D		CWU 1476-22D		CWU 1477-22D		CWU 1478-22D	
FORMATION	TVD	MD	TVD	MD	TVD	MD	TVD	MD
Green River	1404	1417	1405	1416	1407	1419	1408	1419
Birdsnest	1738	1758	1741	1759	1744	1768	1748	1769
Mahogany Oil Shale Bed	2323	2356	2326	2355	2336	2381	2349	2385
Wasatch	4714	4765	4716	4755	4727	4806	4751	4811
Chapita Wells	5299	5350	5297	5336	5306	5385	5328	5388
Buck Canyon	5990	6041	5980	6020	5987	6066	6016	6077
North Horn	6669	6720	6664	6704	6673	6752	6695	6755
KMV Price River	7181	7232	7171	7211	7178	7257	7205	7265
KMV Price River Middle	8006	8057	8000	8039	8008	8087	8034	8094
KMV Price River Lower	8804	8855	8796	8836	8804	8883	8834	8894
Sego	9314	9365	9311	9350	9314	9393	9329	9389
<b>TD</b>	<b>9514</b>	<b>9565</b>	<b>9511</b>	<b>9550</b>	<b>9514</b>	<b>9593</b>	<b>9529</b>	<b>9589</b>
<b>ANTICIPATED BHP (PSI)</b>	<b>5195</b>		<b>5193</b>		<b>5193</b>		<b>5202</b>	

	CWU 1479-22D		CWU 1480-22D					
FORMATION	TVD	MD	TVD	MD	TVD	MD	TVD	MD
Green River	1427	1438	1409	1425				
Birdsnest	1756	1774	1744	1771				
Mahogany Oil Shale Bed	2351	2383	2335	2383				
Wasatch	4759	4802	4737	4808				
Chapita Wells	5336	5379	5321	5392				
Buck Canyon	6028	6072	6015	6086				
North Horn	6704	6747	6692	6763				
KMV Price River	7216	7260	7205	7277				
KMV Price River Middle	8044	8087	8030	8101				
KMV Price River Lower	8846	8889	8829	8900				
Sego	9352	9396	9341	9412				
<b>TD</b>	<b>9552</b>	<b>9596</b>	<b>9541</b>	<b>9612</b>				
<b>ANTICIPATED BHP (PSI)</b>	<b>5215</b>		<b>5209</b>					

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well isolating all zones by cement.

## DRILLING PLAN

### MULTI-WELL PAD:

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SW/SE, SEC. 22, T9S, R22E, S.L.B.&M..  
UINTAH COUNTY, UTAH**

- 3. PRESSURE CONTROL EQUIPMENT:** Production Hole – 5000 Psig  
BOP schematic diagrams attached.

**4. CASING PROGRAM:**

Casing	Hole Size	Length	Size	Weight	Grade	Thread	Rating Collapse	Rating Burst	Tensile
Conductor	20"	40 – 60'	14"	32.5#	A252			1800 PSI	10,000#
Surface	12 ¼"	0 – 2,300'±	9 ⅝"	36.0#	J-55	STC	2020 PSI	3520 PSI	394,000#
Production	7 7/8"	Surface – TD	4 ½"	11.6#	N-80	LTC	6350 PSI	7780 PSI	223,000#

**Note:** 12 ¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-⅝" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

**All casing will be new or inspected.**

**5. Float Equipment:**

**Surface Hole Procedure (0' - 2300'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)

**Production Hole Procedure (2300'± - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 3rd joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**6. MUD PROGRAM**

**Surface Hole Procedure (Surface - 2300'±):**

**0' - 2300'±** Air/Air mist/Aerated water  
or

A closed mud system will be utilized with a gelled bentonite system. LCM sweeps, additions, etc. will be utilized as necessary.

## **DRILLING PLAN**

### **MULTI-WELL PAD:**

**CWU 1475-22D, CWU 1476-22D, CWU 1477-22D,  
CWU 1478-22D, CWU 1479-22D, CWU 1480-22D  
SW/SE, SEC. 22, T9S, R22E, S.L.B.&M..  
UINTAH COUNTY, UTAH**

### **Production Hole Procedure (2300'± - TD):**

Anticipated mud weight 9.5-10.5 ppg depending on actual wellbore conditions encountered while drilling.

**2300'± - TD** A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

## **7. VARIANCE REQUESTS:**

**Reference: Onshore Oil and Gas Order No. 1  
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations**

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

## **8. EVALUATION PROGRAM:**

**Logs:**

**Cased-hole Logs:**

None

Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**CBL/CCL/VDL/GR**

## DRILLING PLAN

### MULTI-WELL PAD:

**CWU 1475-22D, CWU 1476-22D, CWU 1477-22D,  
CWU 1478-22D, CWU 1479-22D, CWU 1480-22D  
SW/SE, SEC. 22, T9S, R22E, S.L.B.&M..  
UINTAH COUNTY, UTAH**

## 9. CEMENT PROGRAM:

### Surface Hole Procedure (Surface - 2300'±):

- Lead: 150 sks** Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>, 3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.
- Tail: 135 sks** Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.
- Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.
- Note:** The above number of sacks is based on gauge-hole calculation  
Lead volume to be calculated to bring cement to surface.  
Tail volume to be calculated to bring cement to 500' above the shoe.

### Production Hole Procedure (2300'± - TD)

- Lead: 135 sks:** Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44 (Salt), 0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.
- Tail: 930 sks:** 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.
- Note:** The above number of sacks is based on gauge-hole calculation.  
Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe.  
Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

**Final Cement volumes will be based upon gauge-hole plus 45% excess.**

## **DRILLING PLAN**

### **MULTI-WELL PAD:**

**CWU 1475-22D, CWU 1476-22D, CWU 1477-22D,  
CWU 1478-22D, CWU 1479-22D, CWU 1480-22D  
SW/SE, SEC. 22, T9S, R22E, S.L.B.&M..  
UINTAH COUNTY, UTAH**

#### **10. ABNORMAL CONDITIONS:**

##### **Surface Hole (Surface - 2300'±):**

Lost circulation

##### **Production Hole (2300'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

#### **11. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

#### **12. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

#### **13. Air Drilling Operations:**

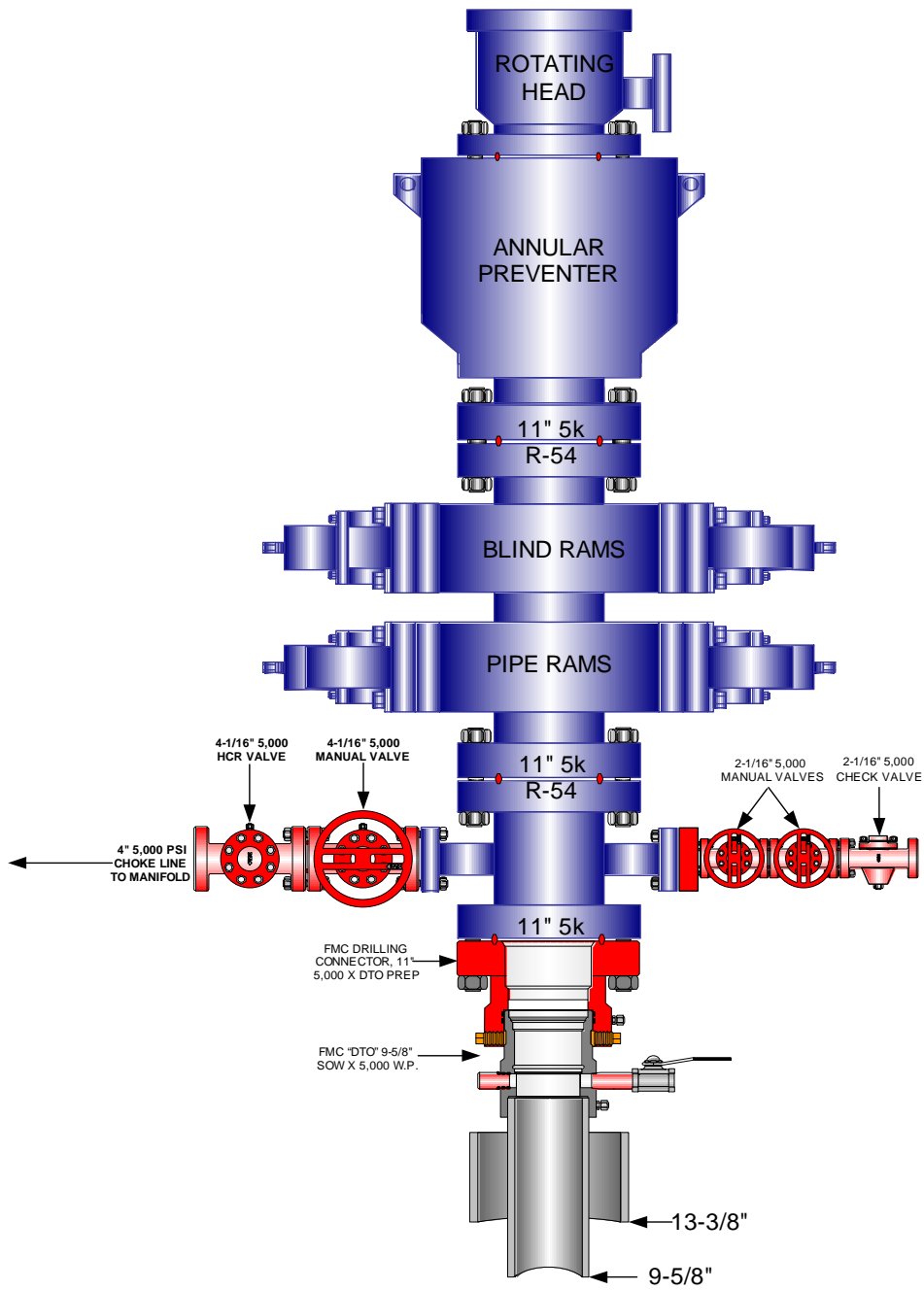
1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

**(Attachment: BOP Schematic Diagram)**



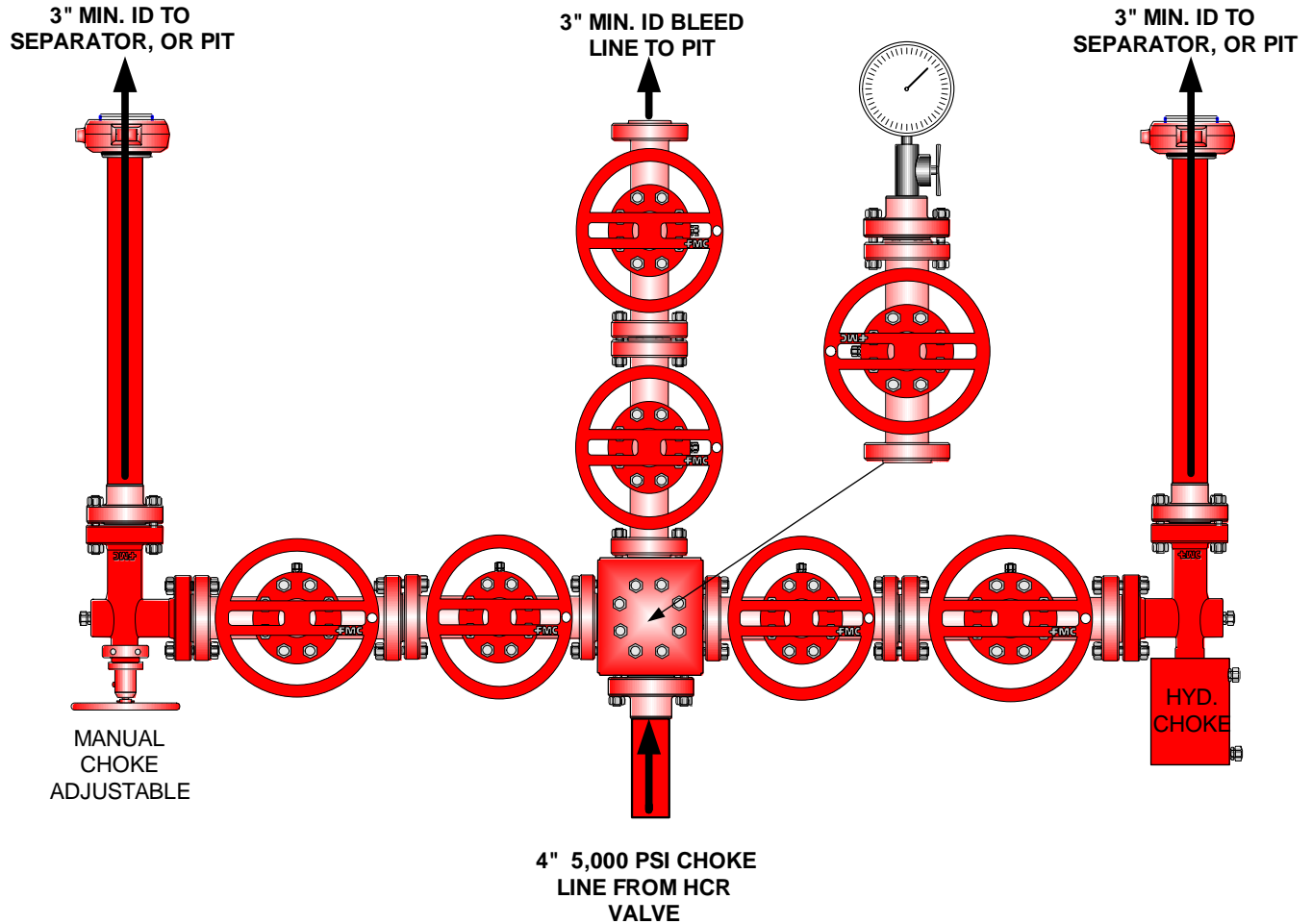
**EOG RESOURCES 11" 5,000 PSI W.P. BOP  
CONFIGURATION**

PAGE 1 OF 2



**EOG RESOURCES CHOKE MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

PAGE 2 OF 2

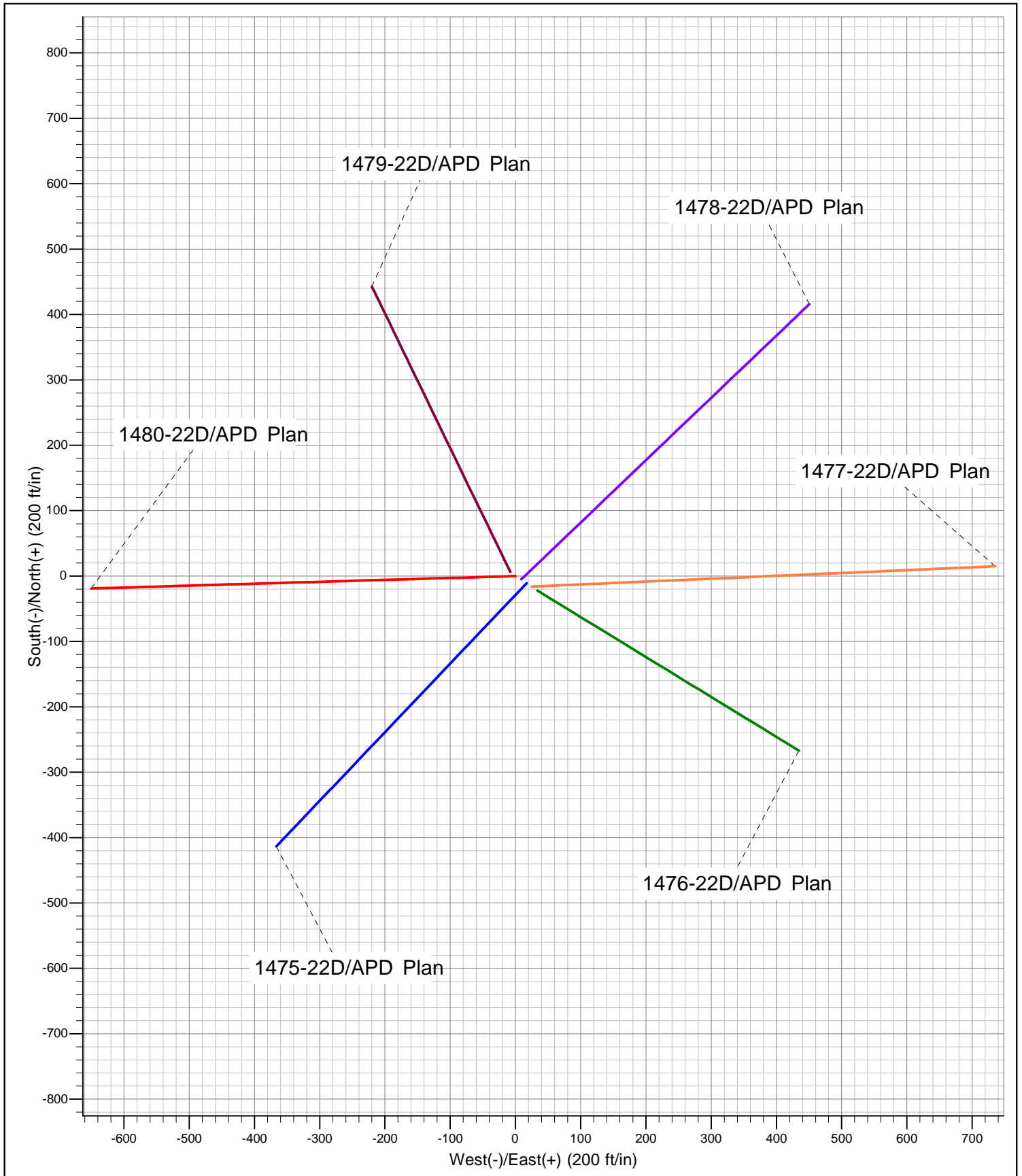


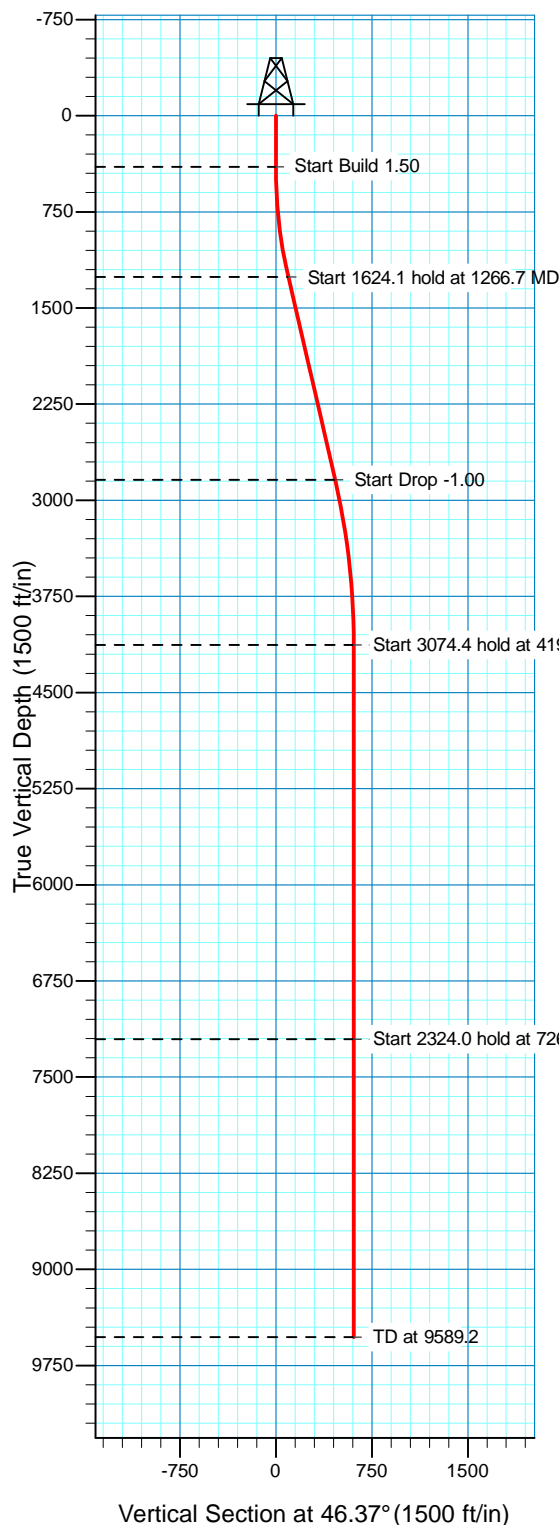
**Testing Procedure:**

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.  
Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, **whichever is greater.**
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

**CWU 1475-22D, CWU 1476-22D, CWU 1477-22D  
CWU 1478-22D, CWU 1479-22D, CWU 1480-22D**

SW/SE, SEC. 22 T9S, R22E, S.L.B. & M.  
UINTAH COUNTY, UTAH

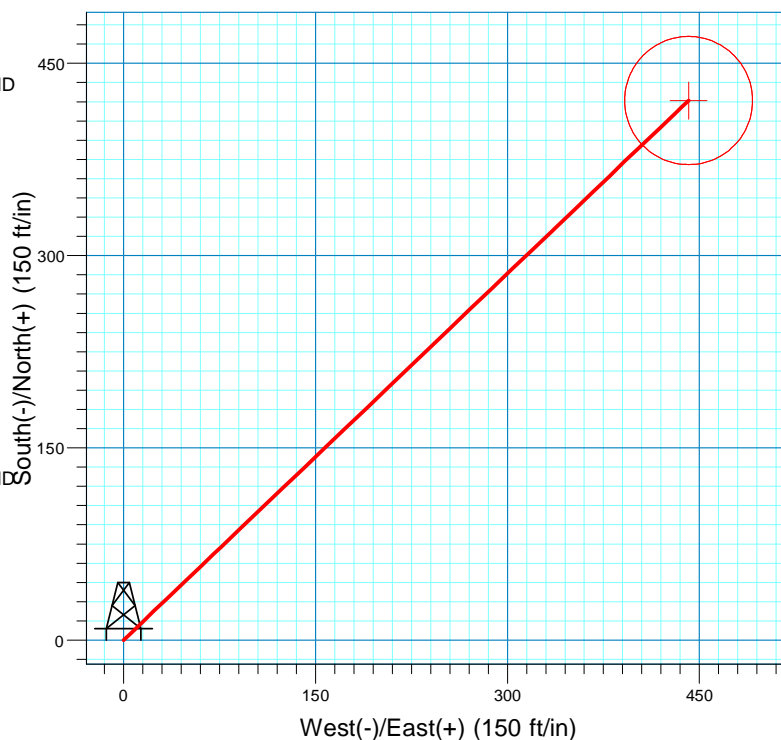




## CWU 1478-22D

Section 22 T9S R22E  
Uintah County, UT

Surface Location			
NAD 1927 (NADCON CONUS)		Utah North 4301	
Ground Elevation: 4970.0		RIG @ 4989.0ft (TRUE 34)	
Northing	Easting	Latitude	Longitude
0.0 -108080.40	2581695.99	40° 1' 3.389 N	109° 25' 24.359 W



Project: T9S-R22E Sec 22  
Site: CWU 1475-1480 22D (Pad C4\_CWU 1162-22)  
Well: 1478-22D  
Plan: APD Plan



Azimuths to True North  
Magnetic North: 11.30°  
Magnetic Field  
Strength: 52587.6snT  
Dip Angle: 65.96°  
Date: 5/4/2009  
Model: IGRF200510

SECTION DETAILS											
	Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
	1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
	2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
	3	1266.7	13.00	46.37	1259.3	67.5	70.9	1.50	46.37	97.9	
	4	2890.7	13.00	46.37	2841.7	319.6	335.3	0.00	0.00	463.2	
	5	4190.8	0.00	0.00	4130.6	420.9	441.6	1.00	180.00	610.1	
	6	7265.2	0.00	0.00	7205.0	420.9	441.6	0.00	0.00	610.1	CWU 1478-22D
	7	9589.2	0.00	0.00	9529.0	420.9	441.6	0.00	0.00	610.1	
TARGET DETAILS											
	Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
	CWU 1478-22D	7205.0	420.9	441.6	-107649.05	2582127.43	40° 1' 7.547 N	109° 25' 18.684 W	Circle (Radius: 50.0)		



## **Denver Division - Utah**

**T9S-R22E Sec 22**

**CWU 1475-1480 22D (Pad C4\_CWU 1162-22)**

**1478-22D**

**Wellbore #1**

**Plan: APD Plan**

## **Standard Survey Report**

**01 September, 2009**

# EOG Resources

## Survey Report



<b>Company:</b>	Denver Division - Utah	<b>Local Co-ordinate Reference:</b>	Well 1478-22D
<b>Project:</b>	T9S-R22E Sec 22	<b>TVD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Site:</b>	CWU 1475-1480 22D (Pad C4_CWU 1162-22)	<b>MD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Well:</b>	1478-22D	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	APD Plan	<b>Database:</b>	EDM 2003.21 Single User Db

<b>Project</b>	T9S-R22E Sec 22		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah North 4301		

<b>Site</b>	CWU 1475-1480 22D (Pad C4_CWU 1162-22)		
<b>Site Position:</b>		<b>Northing:</b>	-108,129.88 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,581,698.57 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 1' 2.899 N
		<b>Longitude:</b>	109° 25' 24.341 W
		<b>Grid Convergence:</b>	1.37 °

<b>Well</b>	1478-22D		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 1' 3.389 N
		<b>Longitude:</b>	109° 25' 24.359 W
		<b>Ground Level:</b>	4,970.0 ft

<b>Wellbore</b>	Wellbore #1		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
			(°)
	IGRF200510	5/4/2009	11.30
			<b>Dip Angle</b>
			(°)
			65.96
			<b>Field Strength</b>
			(nT)
			52,588

<b>Design</b>	APD Plan		
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>
			0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			<b>Direction</b>
			(°)
			46.37

<b>Survey Tool Program</b>	<b>Date</b>	9/1/2009		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
0.0	9,589.2	APD Plan (Wellbore #1)	MWD	MWD - Standard

<b>Planned Survey</b>										
<b>Measured Depth</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical Depth</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Vertical Section</b>	<b>Dogleg Rate</b>	<b>Build Rate</b>	<b>Turn Rate</b>	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	1.50	46.37	500.0	0.9	0.9	1.3	1.50	1.50	0.00	
600.0	3.00	46.37	599.9	3.6	3.8	5.2	1.50	1.50	0.00	
700.0	4.50	46.37	699.7	8.1	8.5	11.8	1.50	1.50	0.00	
800.0	6.00	46.37	799.3	14.4	15.1	20.9	1.50	1.50	0.00	
900.0	7.50	46.37	898.6	22.5	23.7	32.7	1.50	1.50	0.00	
1,000.0	9.00	46.37	997.5	32.4	34.0	47.0	1.50	1.50	0.00	
1,100.0	10.50	46.37	1,096.1	44.1	46.3	64.0	1.50	1.50	0.00	
1,200.0	12.00	46.37	1,194.2	57.6	60.4	83.5	1.50	1.50	0.00	

# EOG Resources

## Survey Report



<b>Company:</b>	Denver Division - Utah	<b>Local Co-ordinate Reference:</b>	Well 1478-22D
<b>Project:</b>	T9S-R22E Sec 22	<b>TVD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Site:</b>	CWU 1475-1480 22D (Pad C4_CWU 1162-22)	<b>MD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Well:</b>	1478-22D	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	APD Plan	<b>Database:</b>	EDM 2003.21 Single User Db

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,266.7	13.00	46.37	1,259.3	67.5	70.9	97.9	1.50	1.50	0.00
1,300.0	13.00	46.37	1,291.7	72.7	76.3	105.4	0.00	0.00	0.00
1,400.0	13.00	46.37	1,389.2	88.2	92.6	127.9	0.00	0.00	0.00
1,500.0	13.00	46.37	1,486.6	103.8	108.9	150.4	0.00	0.00	0.00
1,600.0	13.00	46.37	1,584.0	119.3	125.1	172.9	0.00	0.00	0.00
1,700.0	13.00	46.37	1,681.5	134.8	141.4	195.4	0.00	0.00	0.00
1,800.0	13.00	46.37	1,778.9	150.3	157.7	217.9	0.00	0.00	0.00
1,900.0	13.00	46.37	1,876.4	165.8	174.0	240.4	0.00	0.00	0.00
2,000.0	13.00	46.37	1,973.8	181.4	190.3	262.9	0.00	0.00	0.00
2,100.0	13.00	46.37	2,071.2	196.9	206.6	285.4	0.00	0.00	0.00
2,200.0	13.00	46.37	2,168.7	212.4	222.8	307.9	0.00	0.00	0.00
2,300.0	13.00	46.37	2,266.1	227.9	239.1	330.3	0.00	0.00	0.00
2,400.0	13.00	46.37	2,363.5	243.4	255.4	352.8	0.00	0.00	0.00
2,500.0	13.00	46.37	2,461.0	259.0	271.7	375.3	0.00	0.00	0.00
2,600.0	13.00	46.37	2,558.4	274.5	288.0	397.8	0.00	0.00	0.00
2,700.0	13.00	46.37	2,655.8	290.0	304.3	420.3	0.00	0.00	0.00
2,800.0	13.00	46.37	2,753.3	305.5	320.5	442.8	0.00	0.00	0.00
2,890.7	13.00	46.37	2,841.7	319.6	335.3	463.2	0.00	0.00	0.00
2,900.0	12.91	46.37	2,850.7	321.0	336.8	465.3	1.00	-1.00	0.00
3,000.0	11.91	46.37	2,948.4	335.9	352.4	486.8	1.00	-1.00	0.00
3,100.0	10.91	46.37	3,046.4	349.5	366.7	506.6	1.00	-1.00	0.00
3,200.0	9.91	46.37	3,144.8	362.0	379.8	524.6	1.00	-1.00	0.00
3,300.0	8.91	46.37	3,243.4	373.2	391.6	541.0	1.00	-1.00	0.00
3,400.0	7.91	46.37	3,342.3	383.3	402.2	555.6	1.00	-1.00	0.00
3,500.0	6.91	46.37	3,441.5	392.2	411.5	568.5	1.00	-1.00	0.00
3,600.0	5.91	46.37	3,540.9	399.9	419.6	579.7	1.00	-1.00	0.00
3,700.0	4.91	46.37	3,640.4	406.4	426.4	589.1	1.00	-1.00	0.00
3,800.0	3.91	46.37	3,740.1	411.7	432.0	596.8	1.00	-1.00	0.00
3,900.0	2.91	46.37	3,840.0	415.8	436.3	602.7	1.00	-1.00	0.00
4,000.0	1.91	46.37	3,939.9	418.7	439.3	606.9	1.00	-1.00	0.00
4,100.0	0.91	46.37	4,039.8	420.4	441.1	609.4	1.00	-1.00	0.00
4,190.8	0.00	0.00	4,130.6	420.9	441.6	610.1	1.00	-1.00	0.00
4,200.0	0.00	0.00	4,139.8	420.9	441.6	610.1	0.00	0.00	0.00
4,300.0	0.00	0.00	4,239.8	420.9	441.6	610.1	0.00	0.00	0.00
4,400.0	0.00	0.00	4,339.8	420.9	441.6	610.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,439.8	420.9	441.6	610.1	0.00	0.00	0.00
4,600.0	0.00	0.00	4,539.8	420.9	441.6	610.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,639.8	420.9	441.6	610.1	0.00	0.00	0.00
4,800.0	0.00	0.00	4,739.8	420.9	441.6	610.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,839.8	420.9	441.6	610.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,939.8	420.9	441.6	610.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,039.8	420.9	441.6	610.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,139.8	420.9	441.6	610.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,239.8	420.9	441.6	610.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,339.8	420.9	441.6	610.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,439.8	420.9	441.6	610.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,539.8	420.9	441.6	610.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,639.8	420.9	441.6	610.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,739.8	420.9	441.6	610.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,839.8	420.9	441.6	610.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,939.8	420.9	441.6	610.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,039.8	420.9	441.6	610.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,139.8	420.9	441.6	610.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,239.8	420.9	441.6	610.1	0.00	0.00	0.00

# EOG Resources

## Survey Report



<b>Company:</b>	Denver Division - Utah	<b>Local Co-ordinate Reference:</b>	Well 1478-22D
<b>Project:</b>	T9S-R22E Sec 22	<b>TVD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Site:</b>	CWU 1475-1480 22D (Pad C4_CWU 1162-22)	<b>MD Reference:</b>	RIG @ 4989.0ft (TRUE 34)
<b>Well:</b>	1478-22D	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	APD Plan	<b>Database:</b>	EDM 2003.21 Single User Db

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,400.0	0.00	0.00	6,339.8	420.9	441.6	610.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,439.8	420.9	441.6	610.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,539.8	420.9	441.6	610.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,639.8	420.9	441.6	610.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,739.8	420.9	441.6	610.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,839.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,939.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,039.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,139.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,265.2	0.00	0.00	7,205.0	420.9	441.6	610.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,239.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,339.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,439.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,539.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,639.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,739.8	420.9	441.6	610.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,839.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,939.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,039.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,139.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,239.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,339.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,439.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,539.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,639.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,739.8	420.9	441.6	610.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,839.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,939.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,039.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,139.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,239.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,339.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,439.8	420.9	441.6	610.1	0.00	0.00	0.00	
9,589.2	0.00	0.00	9,529.0	420.9	441.6	610.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude		Longitude
- hit/miss target										
- Shape										
CWU 1478-22D	0.00	0.00	7,205.0	420.9	441.6	-107,649.05	2,582,127.43	40° 1' 7.547 N		109° 25' 18.684 W
- plan hits target center										
- Circle (radius 50.0)										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





***Chapita Wells Unit 1475-22D, 1476-22D, 1477-22D, 1478-22D, 1479-22D, 1480-22D  
SWSE, Section 22, T9S, R22E  
Uintah County, Utah***

***SURFACE USE PLAN***

**The well pad is approximately 400 feet long with a 250-foot width, containing 2.30 acres more or less. New surface disturbance associated with the well pad is estimated to be approximately 2.30 acres.**

***1. EXISTING ROADS:***

- A. See attached Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 49.0 miles south of Vernal, Utah – See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary.

***2. PLANNED ACCESS ROAD:***

- A. The existing access road for the producing Chapita Wells Unit 566-22F and Chapita Wells Unit 1162-22 will be used to access the proposed location.
- B. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

Traveling off the 30-foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

***3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:***

See attached TOPO map "C" for the location of wells within a one-mile radius.

**4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

**A. On Well Pad**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, six (6) to ten (10) 400-bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

**B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. No off-wellpad pipeline will be required. The existing pipeline for producing Chapita Wells Unit 566-22F and Chapita Wells Unit 1162-22 will be used.
4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface
5. Proposed pipeline will be laid on surface.
6. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. **All facilities will be painted with Carlsbad Canyon.** Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

- A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/or Bonanza Power Plant water source in Sec 26, T8S, R23E, Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

- A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.
- B. No mineral materials will be required.

**7. METHODS OF HANDLING WASTE DISPOSAL:**

**A. METHODS AND LOCATION**

- 1. Cuttings will be confined and dried in a cuttings pit. Dried cuttings shall be spread on the access road.
  - 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
  - 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the Uintah County Landfill.
  - 4. Produced wastewater will be confined to a storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD CWU 2-29 SWD, Red Wash Evaporation Ponds 1, 2, 3, 4, 5, 6, or 7, or Coyote Evaporation Ponds 1, 2, 3, or 4, or White River Evaporation Ponds 1, or 2, or Hoss SWD Facility: right-of-way UTU 86010, and UTU 897093, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
  - 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either natural or artificial evaporation methods, or removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the closed loop system will be avoided by flaring them off in the flare pit at the time of recovery.

The referenced well will be drilled utilizing a closed loop system. The closed loop system will be installed in a manner that prevents leaks, breaks, or discharge. Drill cutting will be contained in an area approximately 50' x 100'. The surface drill cuttings pile will be bermed and lined with bentonite. Drill cuttings will be dried and spread on the location and access road. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at

the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

**8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE LAYOUT:**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The proposed location will be drilled utilizing a closed loop system.

The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protection of the topsoil. Upon completion of construction, the stockpiled topsoil from the location will be seeded with the approved seed mixture from this.

Access to the well pad will be from the west.

**The corners of the well pad will be rounded off as needed to minimize excavation.**

**10. PLANS FOR RECLAMATION OF THE SURFACE:**

**A. Interim Reclamation (Producing Location)**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The portion of the location not needed for production facilities/operations will be reclaimed – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled topsoil will then be spread over the pit area (See Figure #4) and broadcast seeded with the prescribed seed mixture for this location as authorized within EOG's reclamation plan filed September 29, 2009.

### ***B. Dry Hole/Abandoned Location***

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.

## **11. SURFACE OWNERSHIP:**

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

Bureau of Land Management

## **12. OTHER INFORMATION:**

- A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:
- Whether the materials appear eligible for the National Register of Historic Places;
  - The mitigation measures the operator will likely have to undertake before the site can be used.
  - A time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

**Chapita Wells Unit 1475-22D, 1476-22D, 1477-22D, 1478-22D, 1479-22D, 1480-22D  
Surface Use Plan**

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**Page 6**

- If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.
- B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BLM administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
  - C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on BLM lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)
  - D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied, as needed, to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion.

A block cultural resources survey for Sec. 22, T9S, R22E was conducted and submitted by Montgomery Archaeological Consultants, MOAC Report # 06-612, on 1/29/2007. A paleontological survey was conducted and will be submitted by Intermountain Paleo.

**Additional Surface Stipulations:**

None

**Chapita Wells Unit 1475-22D, 1476-22D, 1477-22D, 1478-22D, 1479-22D, 1480-22D  
Surface Use Plan**

---

**Page 7**

***LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:***

**PERMITTING AGENT**

Mary A. Maestas  
EOG Resources, Inc.  
1060 East Highway 40  
Vernal, UT 84078  
(435) 781-9111

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

The operator or his/her contractor shall contact the BLM office at (435) 781-4400 forty-eight (48) hours prior to construction activities.

**Chapita Wells Unit 1475-22D, 1476-22D, 1477-22D, 1478-22D, 1479-22D, 1480-22D  
Surface Use Plan**

---

**Page 8**

**CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that EOG Resources, Inc. is considered to be the operator of the Chapita Wells Unit 1475-22D, 1476-22D, 1477-22D, 1478-22D, 1479-22D, 1480-22D Wells, located in the SWSE, of Section 22, T9S, R22E, Uintah County, Utah; Federal land and minerals; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is under Bond # NM 2308.

December 7, 2009

Date

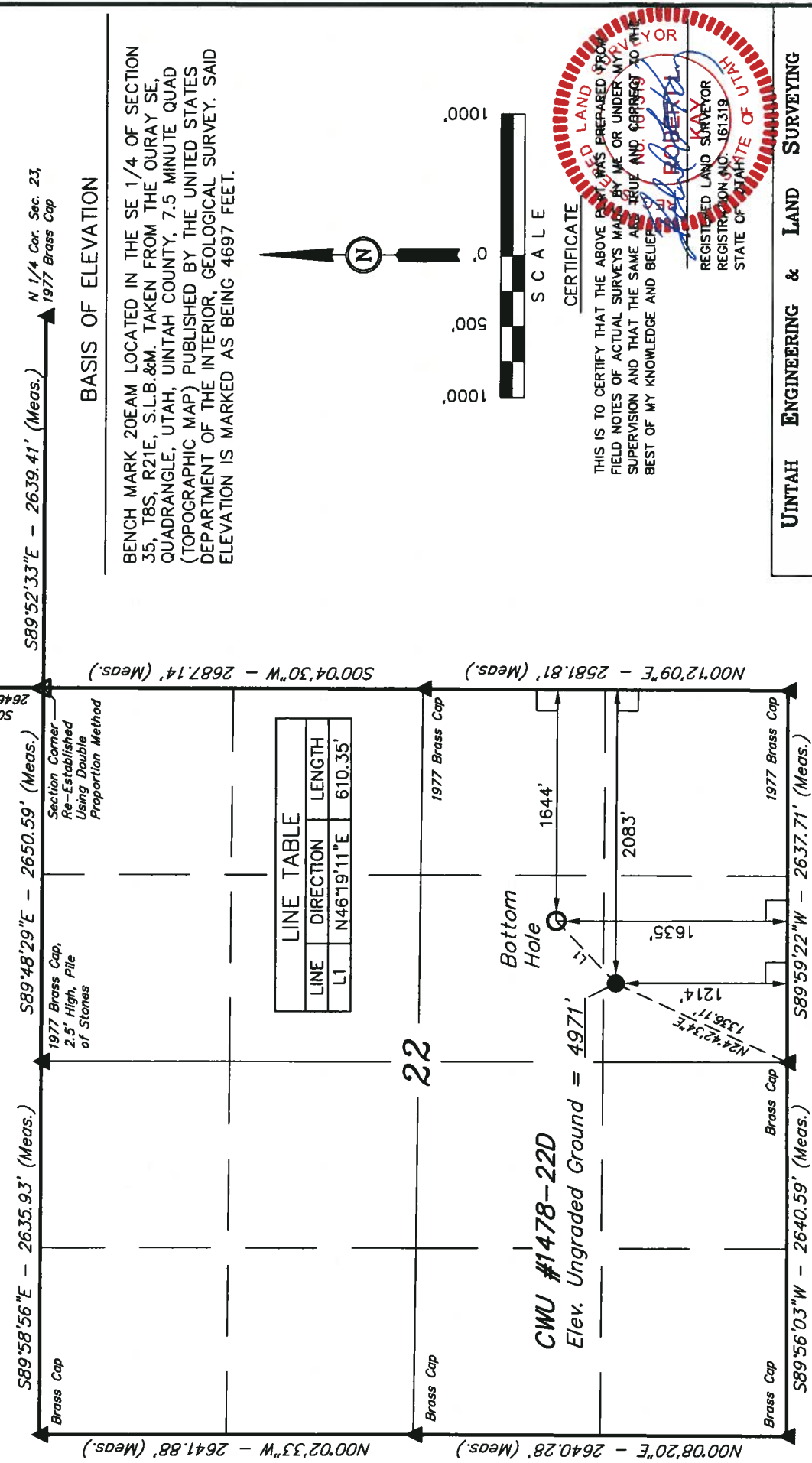
\_\_\_\_\_  
Mary A. Maestas, Regulatory Assistant

Onsite Date: September 14, 2009



*T9S, R22E, S.L.B.&M.*

Well location, CWU #1478-22D, located as shown in the SW 1/4 SE 1/4 of Section 22, T9S, R22E, S.L.B.&M., Uintah County, Utah.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N46°19'11"E	610.35'

CWU #1478-22D  
Elev. Ungraded Ground



SCALE

# CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE REPORT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEY'S MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

KAY ROBERTA  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'		DATE SURVEYED: 07-15-09	DATE DRAWN: 07-17-09
PARTY	G.S. C.R. K.G.	REFERENCES G.L.O. PLAT	
WEATHER	HOT	FILE	EOG RESOURCES, INC.

## BASIS OF BEARINGS

**BASIS OF BEARINGS IS A G.P.S. OBSERVATION.**

LEGEND:

- |   |                                   |
|---|-----------------------------------|
| └ | = 90° SYMBOL                      |
| ● | = PROPOSED WELL HEAD.             |
| ▲ | = SECTION CORNERS LOCATED         |
| Δ | = SECTION CORNERS RE-ESTABLISHED. |
|   | (Not Set on Ground.)              |

**EOG RESOURCES, INC.**  
**CWU #1475-22D, #1476-22D, #1477-22D,**  
**#1478-22D, #1479-22D & #1480-22D**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 22, T9S, R22E, S.L.B.&M.

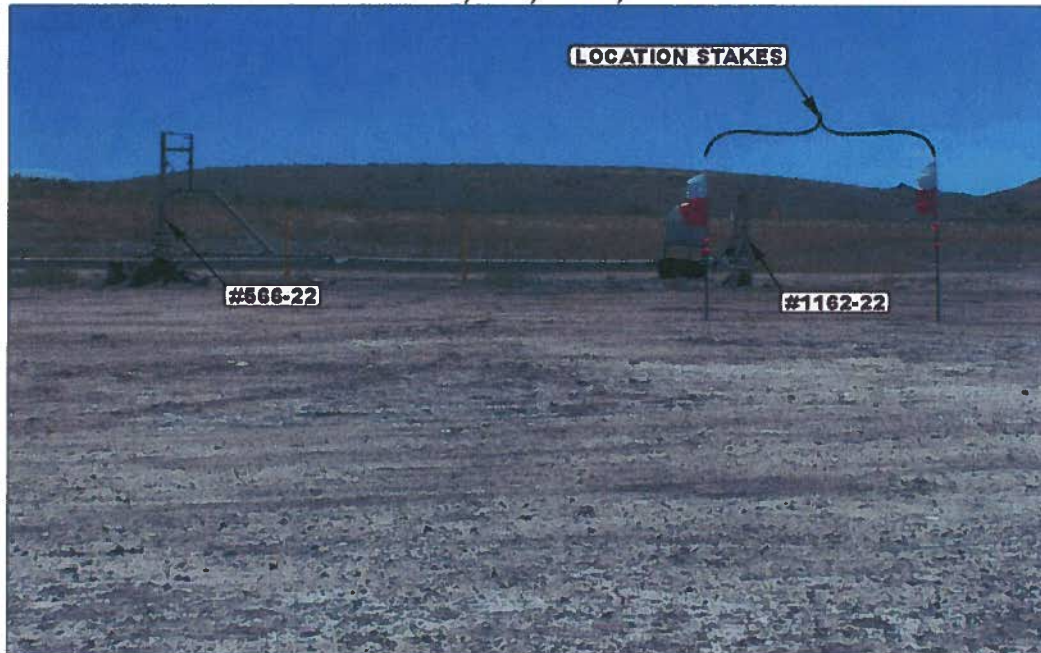


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHWESTERLY

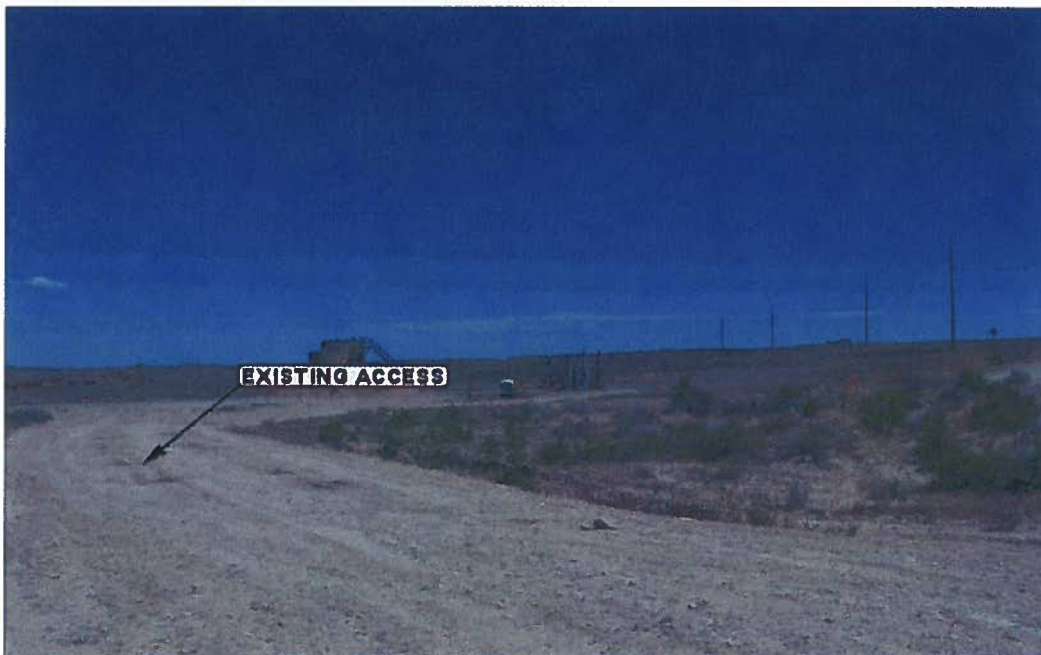


PHOTO: VIEW OF EXSITING ACCESS

CAMERA ANGLE: EASTERLY



**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**LOCATION PHOTOS**

**07** **15** **09**  
 MONTH DAY YEAR

**PHOTO**

TAKEN BY: GS.

DRAWN BY: Z.L.

REVISED: 00-00-00

T9S, R22E, S.L.B.&M.

EOG RESOURCES, INC.

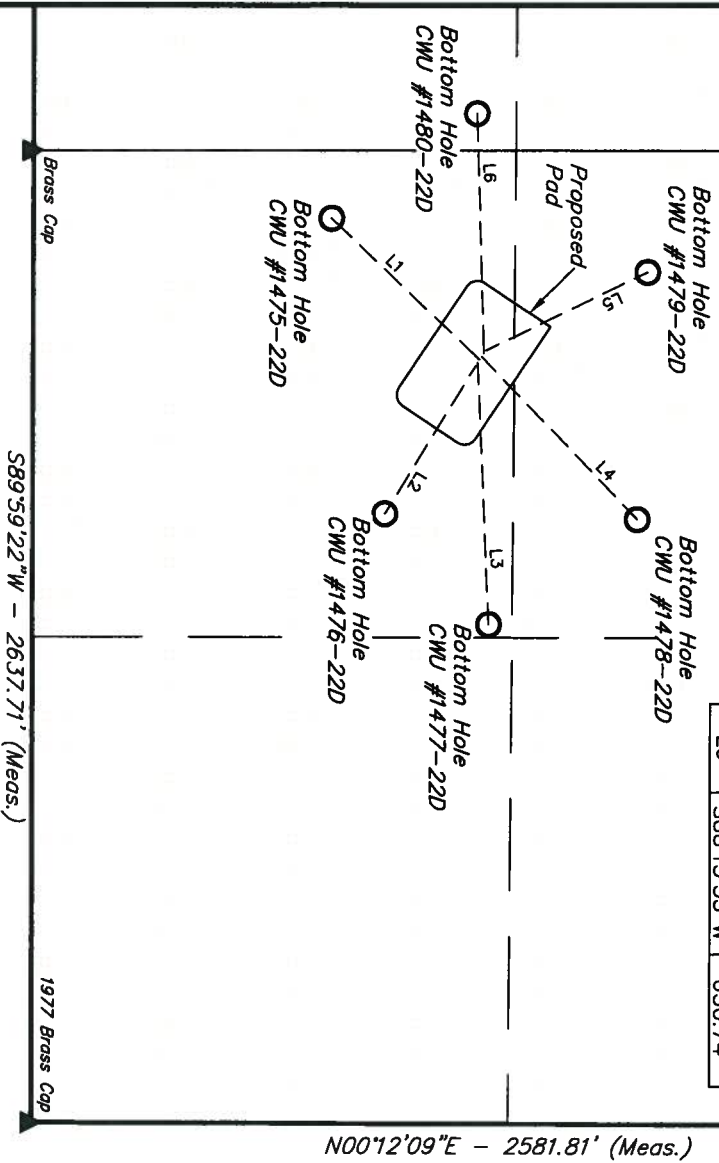
BOTTOM HOLE OVERVIEW FOR

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.

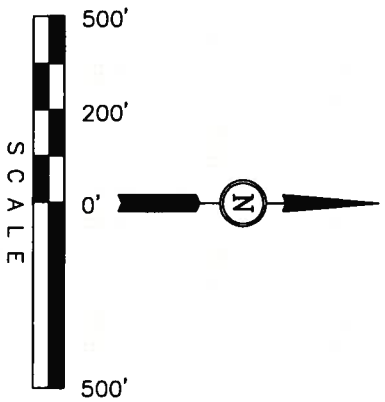
Sec. 22

1977 Brass Cap

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S43°34'10"W	555.76'
L2	S58°37'55"E	469.84'
L3	N87°25'03"E	710.82'
L4	N46°19'11"E	610.35'
L5	N25°55'41"W	485.71'
L6	S88°15'55"W	650.74'



N00°12'09"E - 2581.81' (Meas.)



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE REPRESENTS PREPARED FOR  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
KAY  
STATE OF UTAH  
REGISTRATION NO. 181319

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 500'  
DATE SURVEYED: 07-15-09 DATE DRAWN: 09-09-09

PARTY G.S. C.R. K.G. REFERENCES G.L.O. PLAT

WEATHER HOT FILE EOG RESOURCES, INC.

LEGEND:

▲ = SECTION CORNERS LOCATED.

○ = BOTTOM HOLE LOCATION

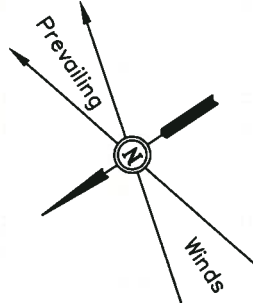


# EOG RESOURCES, INC.

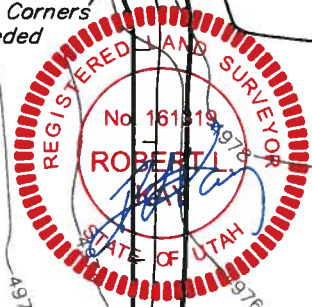
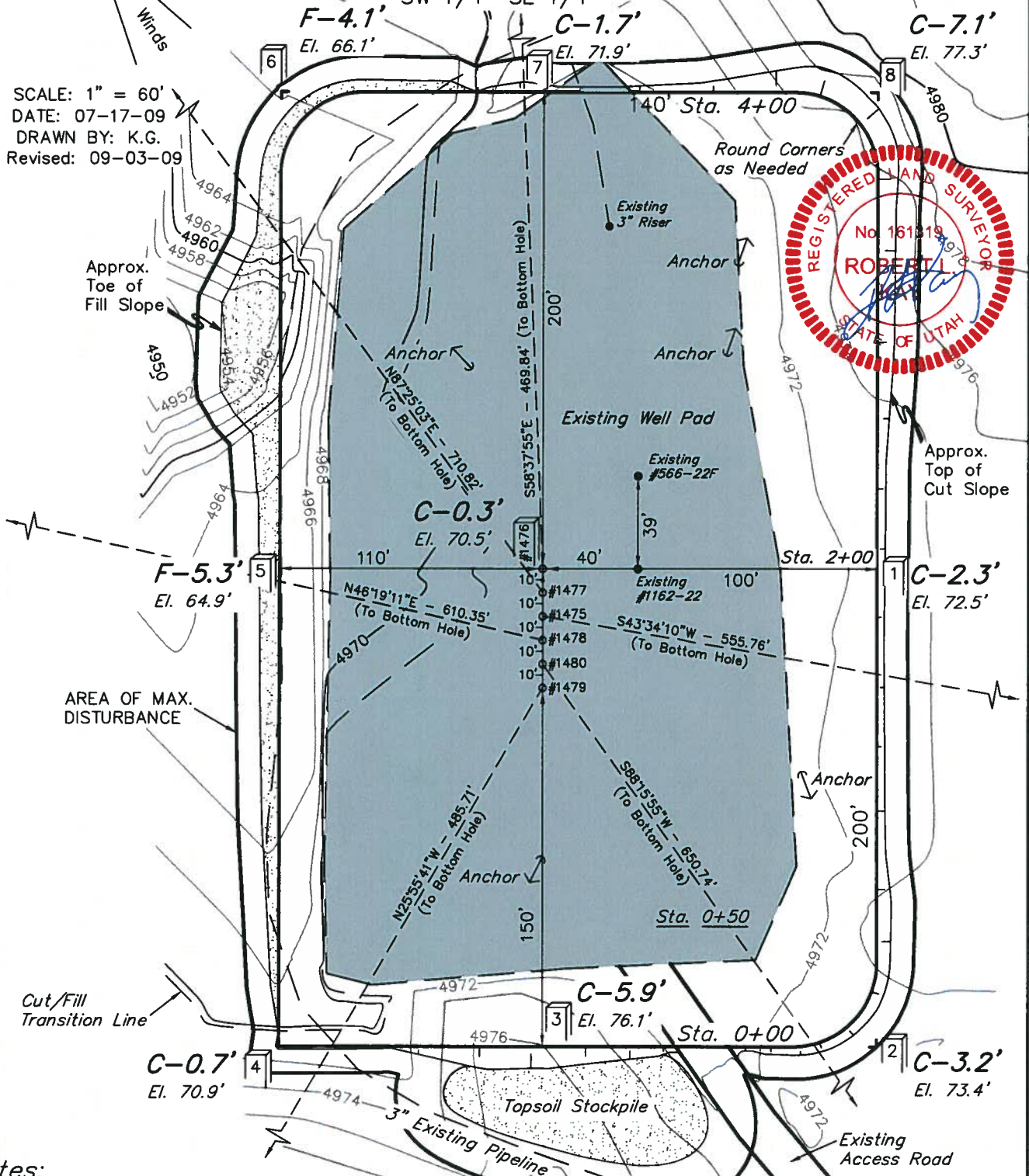
## LOCATION LAYOUT FOR

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.  
SW 1/4 SE 1/4

FIGURE #1



SCALE: 1" = 60'  
DATE: 07-17-09  
DRAWN BY: K.G.  
Revised: 09-03-09



### Notes:

Elv. Ungraded At #1476-22D Loc. Stake = 4970.5' **UINTAH ENGINEERING & LAND SURVEYING**  
FINISHED GRADE ELEV. AT #1476-22D LOC. STAKE = 4970.2' 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 07-17-09  
DRAWN BY: K.G.

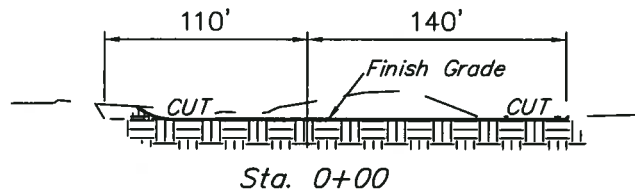
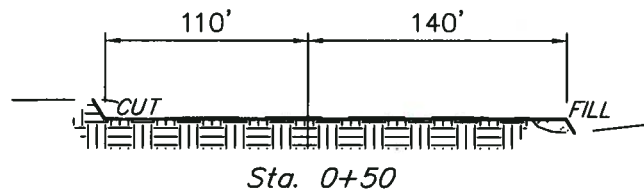
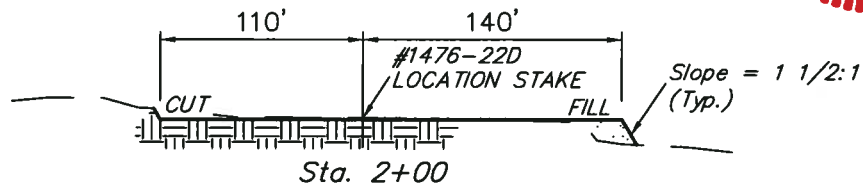
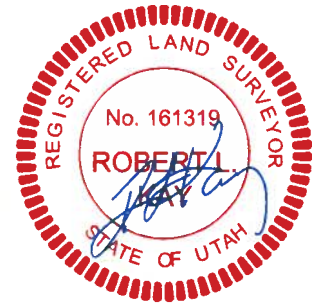
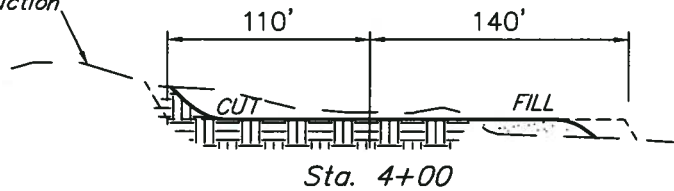
# EOG RESOURCES, INC.

## TYPICAL CROSS SECTION FOR

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.  
SW 1/4 SE 1/4

FIGURE #2

Preconstruction  
Grade



APPROXIMATE ACREAGES  
EXISTING DISTURBANCE = ± 1.465 ACRES  
NEW DISTURBANCE = ± 1.569 ACRES  
TOTAL = ± 3.034 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

## APPROXIMATE YARDAGES

(6") Topsoil Stripping = 670 Cu. Yds.  
(New Construction Only)  
Remaining Location = 2,700 Cu. Yds.  
TOTAL CUT = 3,370 CU.YDS.  
FILL = 2,700 CU.YDS.

EXCESS MATERIAL = 670 Cu. Yds.  
Topsoil = 670 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# EOG RESOURCES, INC.

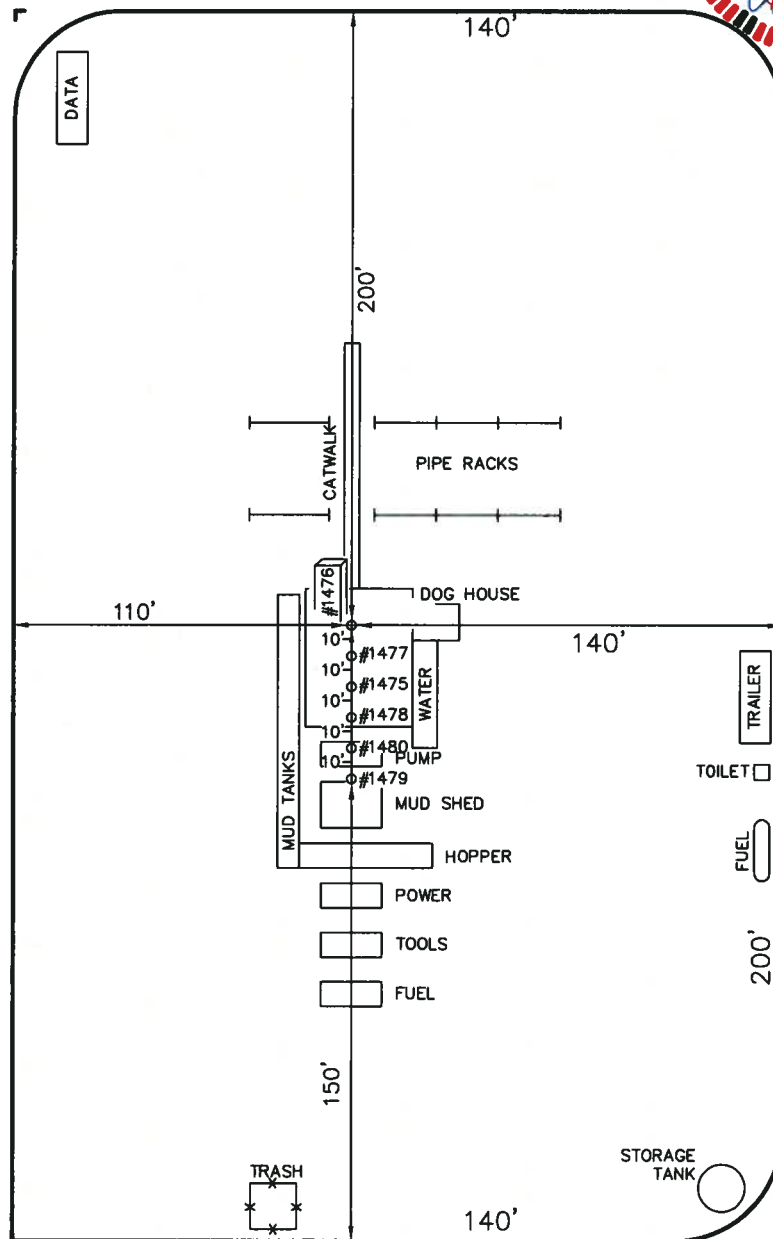
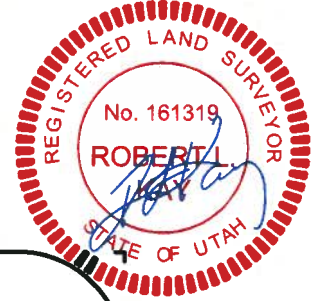
## TYPICAL RIG LAYOUT FOR

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.  
SW 1/4 SE 1/4

FIGURE #3



SCALE: 1" = 60'  
DATE: 07-17-09  
DRAWN BY: K.G.



# EOG RESOURCES, INC.

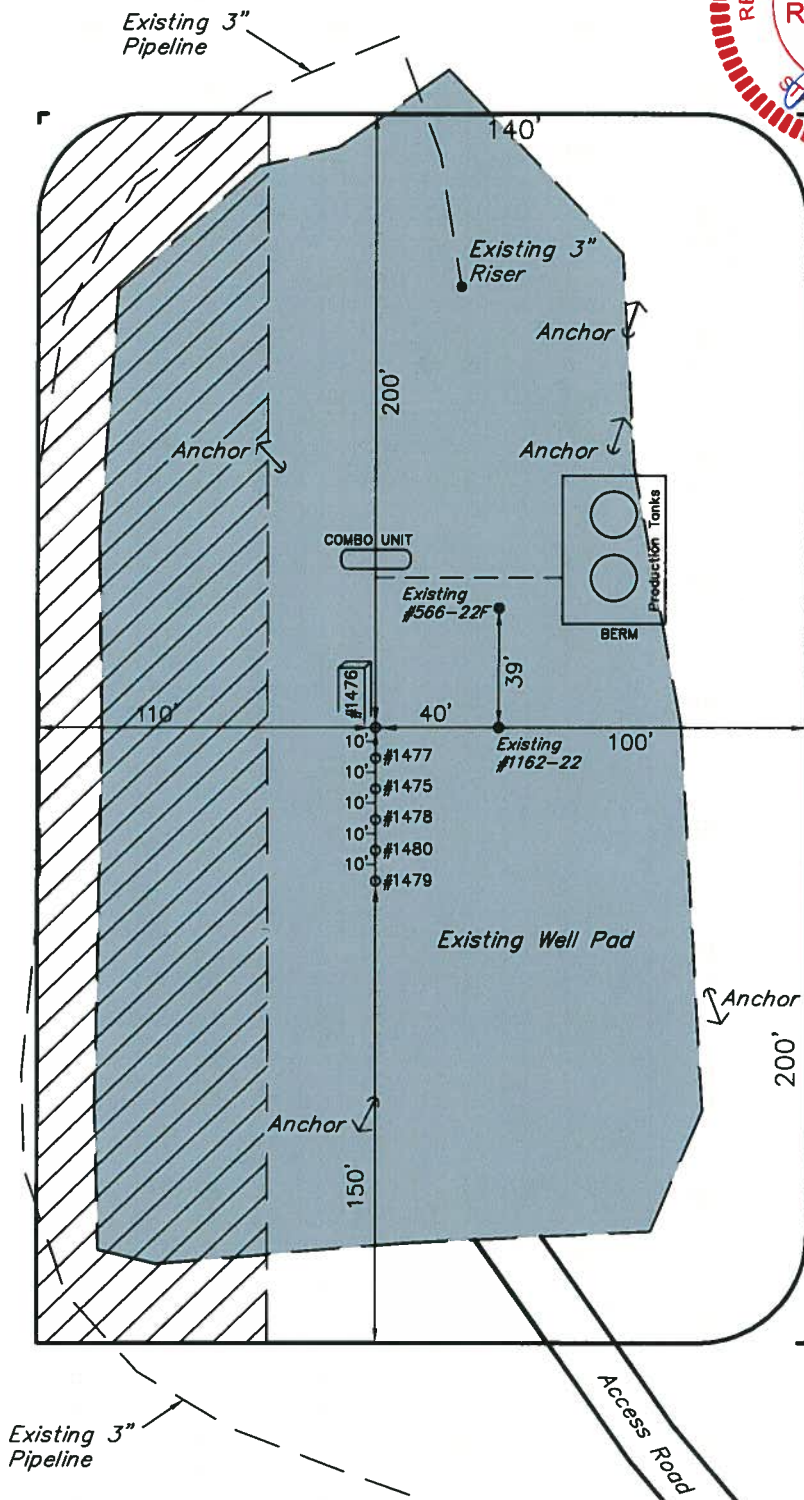
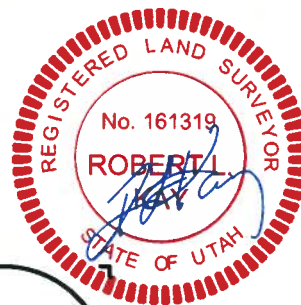
## PRODUCTION FACILITY LAYOUT FOR

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.  
SW 1/4 SE 1/4

FIGURE #4



SCALE: 1" = 60'  
DATE: 07-17-09  
DRAWN BY: K.G.



RE-HABED AREA

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

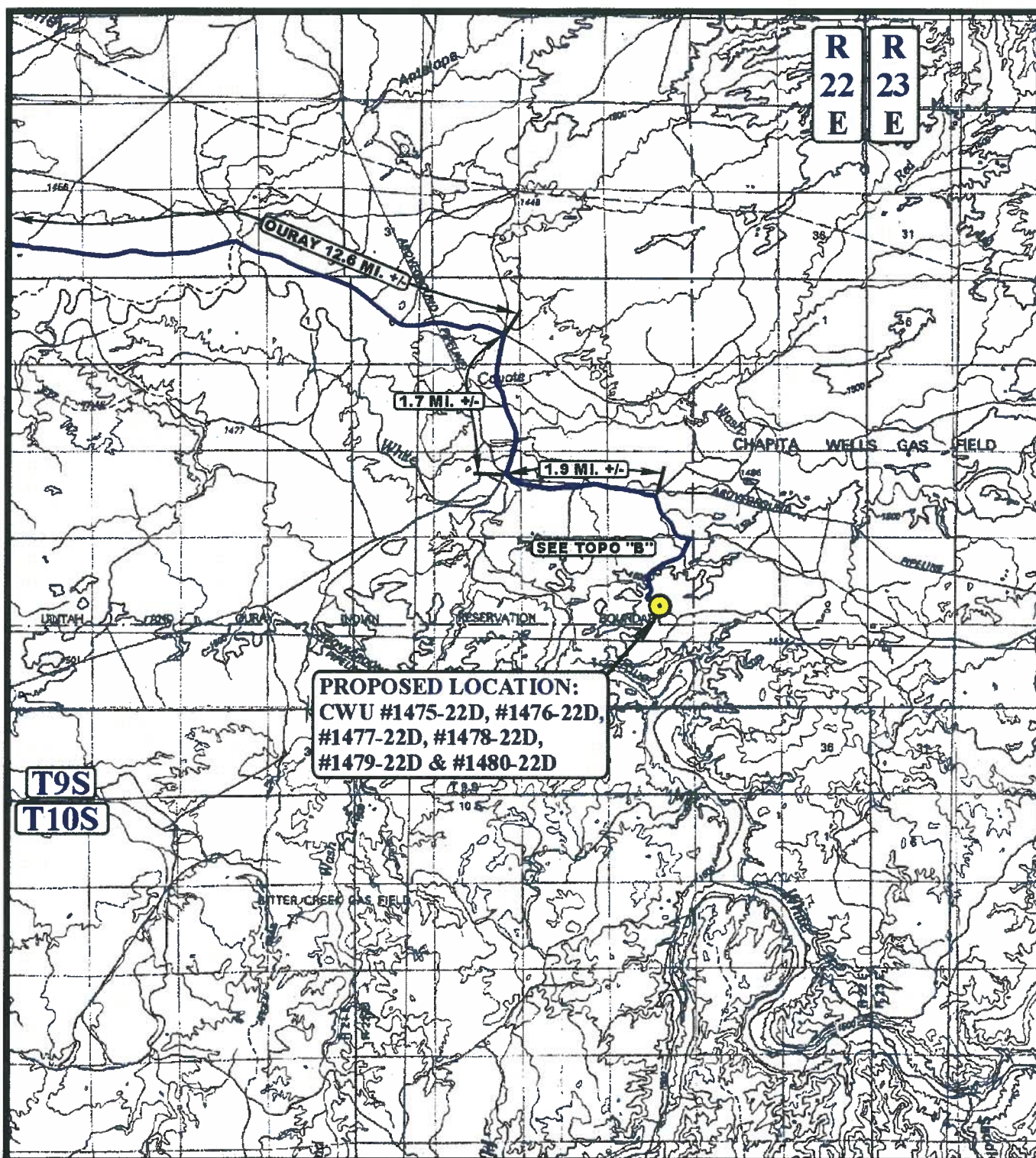


EOG RESOURCES, INC.  
CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 200' TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 180' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.0 MILES.





**PROPOSED LOCATION:**  
 CWU #1475-22D, #1476-22D,  
 #1477-22D, #1478-22D,  
 #1479-22D & #1480-22D

**T9S**  
**T10S**

**R**  
**22**  
**E**

**R**  
**23**  
**E**

# **LEGEND:**

 **PROPOSED LOCATION**



## **EOG RESOURCES, INC.**

CWU #1475-22D, #1476-22D, #1477-22D,  
 #1478-22D, #1479-22D & #1480-22D  
 SECTION 22, T9S, R22E, S.L.B.&M.  
 SW 1/4 SE 1/4



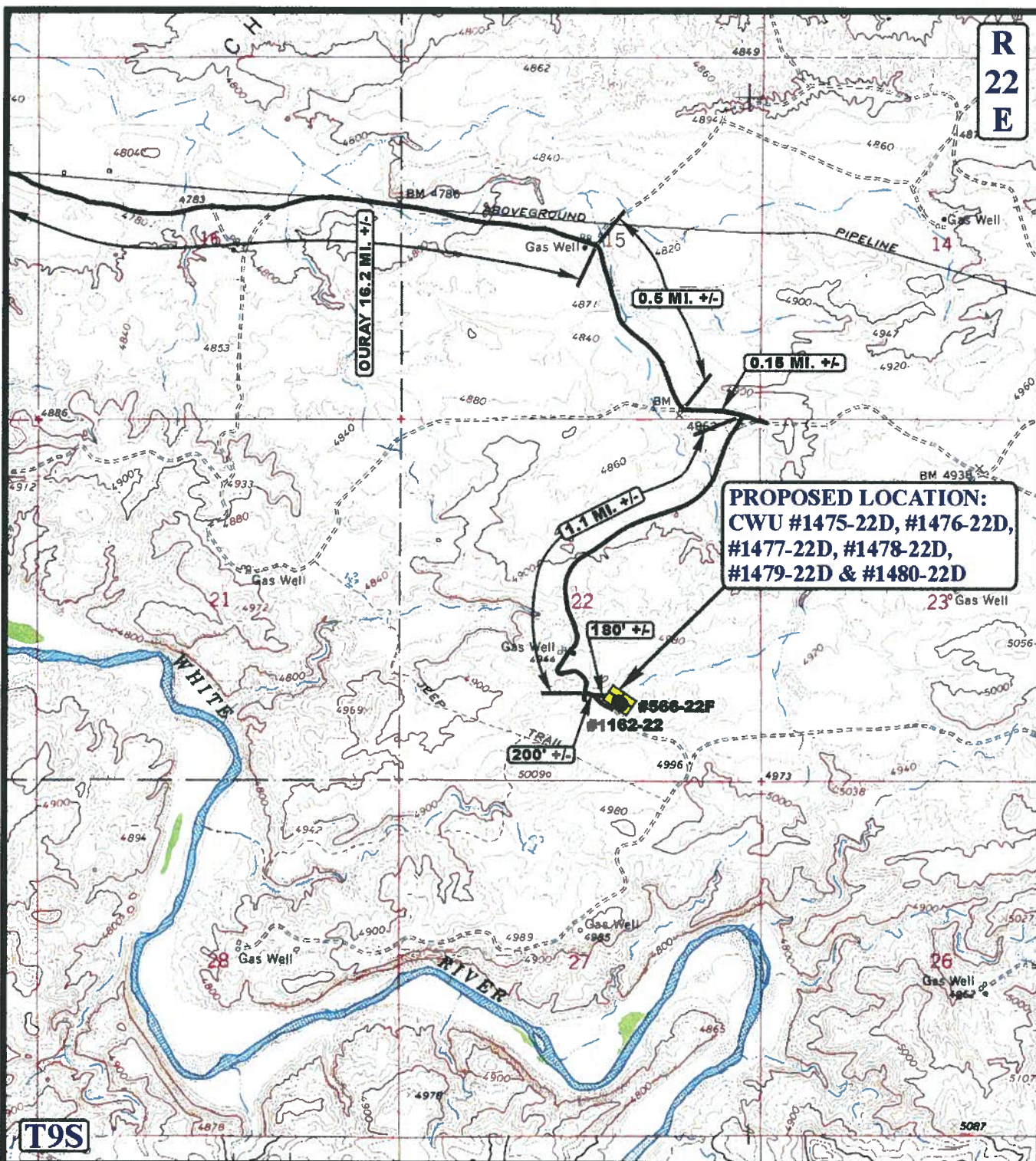
**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **07** **15** **09**  
**MAP** **MONTH** **DAY** **YEAR**  
 SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





**R  
22  
E**



**T9S**

**LEGEND:**

— EXISTING ROAD



**EOG RESOURCES, INC.**

CWU #1475-22D, #1476-22D, #1477-22D,  
#1478-22D, #1479-22D & #1480-22D  
SECTION 22, T9S, R22E, S.L.B.&M.  
SW 1/4 SE 1/4



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**07 15 09**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00

**B  
TOPO**

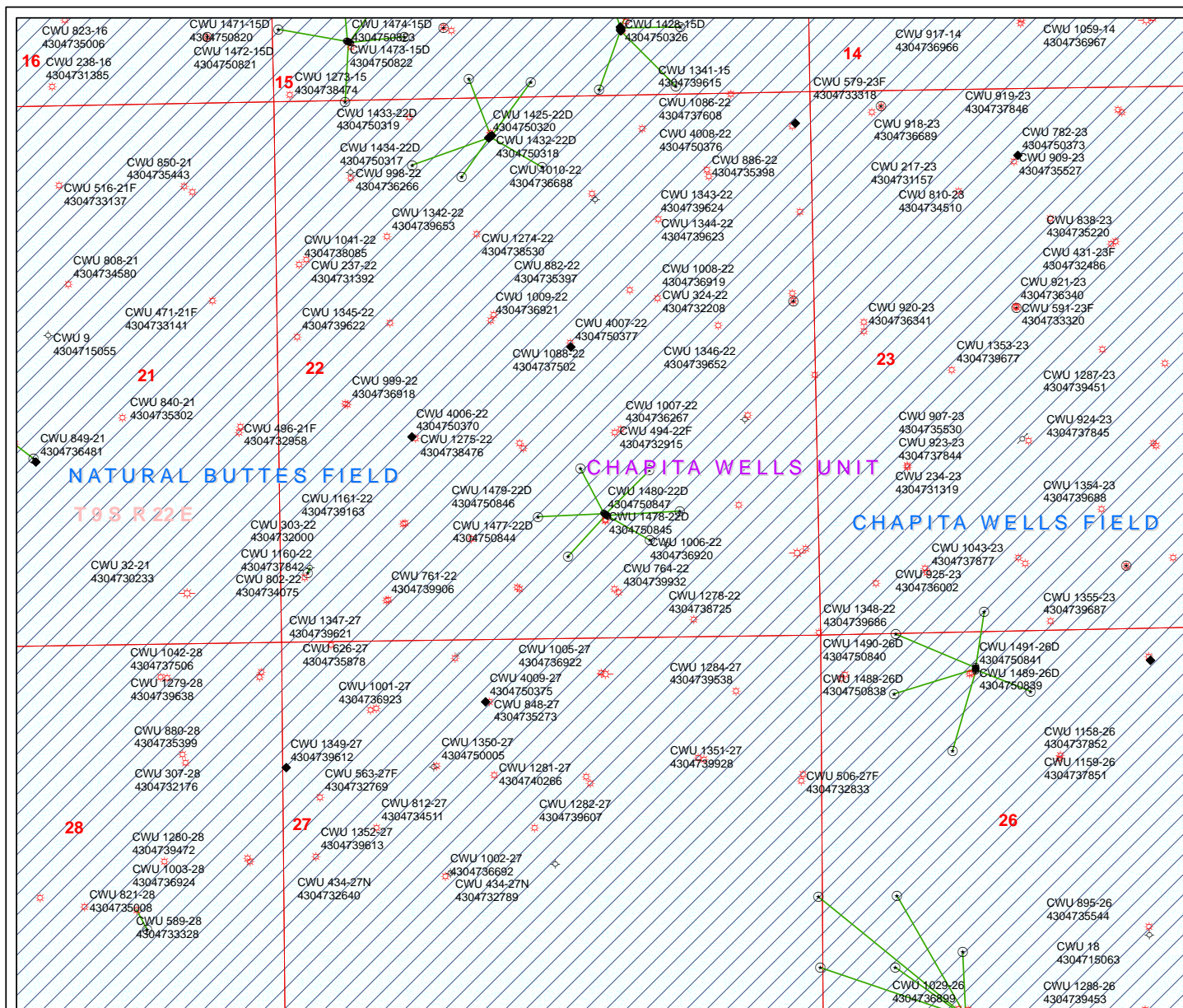
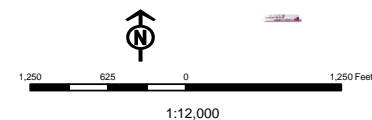
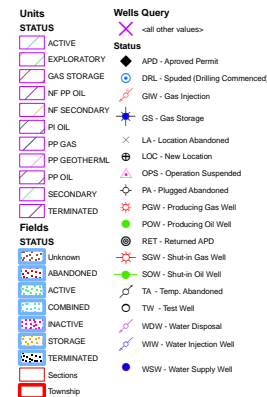






**API Number: 4304750845**  
**Well Name: CWU 1478-22D**  
**Township 09.0 S Range 22.0 E Section 22**  
**Meridian: SLBM**  
Operator: EOG RESOURCES, INC.

Map Prepared:  
Map Produced by Diana Mason



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

December 11, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2009 Plan of Development Chapita Wells Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Chapita Wells Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-50837	CWU 1487-26D Sec 26 T09S R22E 0377 FNL 1501 FWL	
	BHL Sec 26 T09S R22E 1158 FNL 1262 FWL	
43-047-50838	CWU 1488-26D Sec 26 T09S R22E 0357 FNL 1501 FWL	
	BHL Sec 26 T09S R22E 0588 FNL 0699 FWL	
43-047-50839	CWU 1489-26D Sec 26 T09S R22E 0347 FNL 1501 FWL	
	BHL Sec 26 T09S R22E 0006 FNL 0726 FWL	
43-047-50840	CWU 1490-26D Sec 26 T09S R22E 0337 FNL 1501 FWL	
	BHL Sec 23 T09S R22E 0199 FSL 1597 FWL	
43-047-50841	CWU 1491-26D Sec 26 T09S R22E 0367 FNL 1501 FWL	
	BHL Sec 26 T09S R22E 0590 FNL 2033 FWL	
43-047-50842	CWU 1475-22D Sec 22 T09S R22E 1208 FSL 2075 FEL	
	BHL Sec 22 T09S R22E 0806 FSL 2457 FEL	
43-047-50843	CWU 1476-22D Sec 22 T09S R22E 1197 FSL 2059 FEL	
	BHL Sec 22 T09S R22E 0952 FSL 1657 FEL	
43-047-50844	CWU 1477-22D Sec 22 T09S R22E 1203 FSL 2067 FEL	
	BHL Sec 22 T09S R22E 1234 FSL 1357 FEL	
43-047-50845	CWU 1478-22D Sec 22 T09S R22E 1214 FSL 2083 FEL	
	BHL Sec 22 T09S R22E 1635 FSL 1644 FEL	

Page 2

API #	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-50846	CWU 1479-22D Sec 22 T09S R22E 1225 FSL 2100 FEL	
	BHL Sec 22 T09S R22E 1662 FSL 2314 FEL	
43-047-50847	CWU 1480-22D Sec 22 T09S R22E 1219 FSL 2092 FEL	
	BHL Sec 22 T09S R22E 1200 FSL 2537 FWL	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Chapita Wells Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:12-11-09



**EOG Resources, Inc.**  
600 Seventeenth Street  
Suite 1000N  
Denver, CO 80202  
Main: 303-572-9000  
Fax: 303-824-5400

March 9, 2010

Diana Whitney  
Utah Division of Oil, Gas, & Mining  
P.O. Box 145801  
Salt Lake City, Utah 54114-5801

2215

**RE: Directional Application**

**Lease UTU-0284-A  
Chapita Wells Unit 1478-22D  
Section 22, T9S, R22E  
Uintah County, Utah**

Ms. Whitney,

Pursuant to the filing of Chapita Wells Unit 1478-22D Application for Permit to Drill regarding the above referenced well on December 8, 2009, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- EOG Resources, Inc. is the only lease operator/working interest owner within a 460 foot radius of the Chapita Wells Unit 1478-22D well bore, located within Section 22, T9S, R22E, Uintah County, Utah.
- EOG Resources, Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, EOG will be able to utilize the existing road infrastructure.
- Furthermore, EOG hereby certifies that EOG is the sole working interest owner within 460 feet of the entire directional well bore.

Based on the above stated information, EOG Resources, Inc. requests the permit be granted pursuant to R649-3-11.

Sincerely,

A handwritten signature in blue ink that reads "Mary A. Maestas".

Mary A. Maestas  
Regulatory Assistant

**RECEIVED**

**MAR 11 2010**

**DIV. OF OIL, GAS & MINING**

# WORKSHEET

## APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 12/8/2009

**API NO. ASSIGNED:** 43047508450000

**WELL NAME:** CWU 1478-22D

**OPERATOR:** EOG Resources, Inc. (N9550)

**PHONE NUMBER:** 303 824-5526

**CONTACT:** Mary Maestas

**PROPOSED LOCATION:** SWSE 22 090S 220E

**Permit Tech Review:** ☒

**SURFACE:** 1214 FSL 2083 FEL

**Engineering Review:** ☐

**BOTTOM:** 1635 FSL 1644 FEL

**Geology Review:** ☒

**COUNTY:** UINTAH

**LATITUDE:** 40.01762

**LONGITUDE:** -109.42343

**UTM SURF EASTINGS:** 634547.00

**NORTHINGS:** 4430693.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU0284A

**PROPOSED PRODUCING FORMATION(S):** MESA VERDE

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

### RECEIVED AND/OR REVIEWED:

☒ **PLAT**

☒ **Bond:** FEDERAL - NM2308

☐ **Potash**

☒ **Oil Shale 190-5**

☐ **Oil Shale 190-3**

☐ **Oil Shale 190-13**

☒ **Water Permit:** 49-225

☐ **RDCC Review:**

☐ **Fee Surface Agreement**

☐ **Intent to Commingle**

**Commingle Approved**

### LOCATION AND SITING:

☐ **R649-2-3.**

**Unit:** CHAPITA WELLS

☐ **R649-3-2. General**

☐ **R649-3-3. Exception**

☒ **Drilling Unit**

**Board Cause No:** Cause 179-8

**Effective Date:** 8/10/1999

**Siting:** Suspends General Siting

☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**  
4 - Federal Approval - dmason  
15 - Directional - dmason  
17 - Oil Shale 190-5(b) - dmason





GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** CWU 1478-22D  
**API Well Number:** 43047508450000  
**Lease Number:** UTU0284A  
**Surface Owner:** FEDERAL  
**Approval Date:** 3/16/2010

**Issued to:**

EOG Resources, Inc., 1060 East Highway 40, Vernal, UT 84078

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-8. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

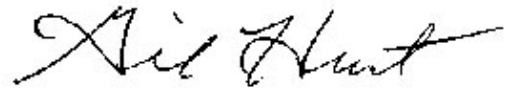
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU0284A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>7. UNIT or CA AGREEMENT NAME:</b> CHAPITA WELLS
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078		<b>8. WELL NAME and NUMBER:</b> CWU 1478-22D
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1214 FSL 2083 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 22 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047508450000
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/17/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.		
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 03/23/2011 <b>By:</b>		
<b>NAME (PLEASE PRINT)</b> Mckenzie Gates		<b>PHONE NUMBER</b> 435 781-9145
<b>SIGNATURE</b> N/A		<b>TITLE</b> Operations Clerk
<b>DATE</b> 3/17/2011		



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047508450000

**API:** 43047508450000

**Well Name:** CWU 1478-22D

**Location:** 1214 FSL 2083 FEL QTR SWSE SEC 22 TWP 090S RNG 220E MER S

**Company Permit Issued to:** EOG RESOURCES, INC.

**Date Original Permit Issued:** 3/16/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Mickenzie Gates

**Date:** 3/17/2011

**Title:** Operations Clerk **Representing:** EOG RESOURCES, INC.

**RECEIVED** Mar. 17, 2011

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

DEC 08 2009

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0284A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG RESOURCES INC Contact: MARY A. MAESTAS E-Mail: mary_maestas@eogresources.com		7. If Unit or CA Agreement, Name and No. UTU63013BF
3a. Address 1060 EAST HIGHWAY 40 VERNAL, UT 84078		8. Lease Name and Well No. CWU 1478-22D
3b. Phone No. (include area code) Ph: 303-824-5526		9. API Well No. 43-047-50845
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWSE 1214FSL 2083FEL 40.01757 N Lat, 109.42412 W Lon At proposed prod. zone NWSE 1635FSL 1644FEL 40.01873 N Lat, 109.42254 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* 49.0 MILES SOUTH OF VERNAL, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 22 T9S R22E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1635' LEASE LINE	16. No. of Acres in Lease 1240.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 840'	19. Proposed Depth 9589 MD 9529 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4971 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well
23. Estimated duration 45 DAYS		

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MARY A. MAESTAS Ph: 303-824-5526	Date 12/08/2009
Title REGULATORY ASSISTANT		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUL 29 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

RECEIVED

Electronic Submission #78552 verified by the BLM Well Information System  
For EOG RESOURCES INC, sent to the Vernal  
Committed to AFMSS for processing by ROBIN R. HANSEN on 12/09/2009 (10RRH0064AE)

AUG 15 2011

NOTICE OF APPROVAL

DIV. OF OIL, GAS &amp; MINING

CONDITIONS OF APPROVAL ATTACHED

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

09GXJ6100AE

KLOS 9-14-09



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: EOG Resources Inc.  
Well No: CWU 1478-22D  
API No: 43-047-50845

Location: SWSE, Sec.22, T9S R22E  
Lease No: UTU-0284A  
Agreement: Chapita Wells Unit

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 03/31/2008. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 01/13/2013 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC CONDITIONS OF APPROVAL**

**Wildlife and T&E Species:**

- Install a hospital muffler to help reduce noise and minimize disturbance within the habitat for various wildlife species.

**Paleontology:**

- A permitted paleontologist will monitor the beginning of the construction process for the well pad covered in this report, and there after conduct a spot monitor as paleontological conditions merit.

**Paint:**

- All facilities will be painted Covert Green within six months of installation, except those facilities which are required to comply with the Occupational Safety and Health Act (OSHA).

**Note:**

- **Expiration Date for the** "Chapita Wells Stagecoach Area Natural Gas Development Environmental Impact Statement," (EIS # UT-080-2005-0010) is March 31, 2013. Approval and drilling of this gas well is contingent on the validity of the above EA (sec. 390, b:3, Energy Policy Act of 2005). Consequently, the well must be spudded by March 31, 2013; otherwise, the APD will default to 'expired status' and the operator will cease all drilling related activities at the site.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.

**Variances Granted**

**Air Drilling**

- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore and not in a straight line with water mist used to control dust.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors.
- Mud Material Requirements. Variance granted for using water as kill fluid in air drilling.
- Operator must notify BLM Vernal office of any active gilsonite operation within 2 miles of the location 48 hours prior to any blasting on this well location.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.



- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of

the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of

the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU0284A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>7. UNIT or CA AGREEMENT NAME:</b> CHAPITA WELLS
<b>3. ADDRESS OF OPERATOR:</b> 600 17th Street, Suite 1000 N , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> CWU 1478-22D
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1214 FSL 2083 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 22 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047508450000
<b>PHONE NUMBER:</b> 435 781-9111 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>2/7/2012</b>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> ACIDIZE</div> <div style="width: 33%;"><input type="checkbox"/> ALTER CASING</div> <div style="width: 33%;"><input type="checkbox"/> CASING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TUBING</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL NAME</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL STATUS</div> <div style="width: 33%;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div style="width: 33%;"><input type="checkbox"/> CONVERT WELL TYPE</div> <div style="width: 33%;"><input type="checkbox"/> DEEPEN</div> <div style="width: 33%;"><input type="checkbox"/> FRACTURE TREAT</div> <div style="width: 33%;"><input type="checkbox"/> NEW CONSTRUCTION</div> <div style="width: 33%;"><input type="checkbox"/> OPERATOR CHANGE</div> <div style="width: 33%;"><input type="checkbox"/> PLUG AND ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> PLUG BACK</div> <div style="width: 33%;"><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div style="width: 33%;"><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div style="width: 33%;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div style="width: 33%;"><input type="checkbox"/> TEMPORARY ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> TUBING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> VENT OR FLARE</div> <div style="width: 33%;"><input type="checkbox"/> WATER DISPOSAL</div> <div style="width: 33%;"><input type="checkbox"/> WATER SHUTOFF</div> <div style="width: 33%;"><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div style="width: 33%;"><input checked="" type="checkbox"/> APD EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div style="width: 33%;"><input type="checkbox"/> OTHER</div> </div>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	
OTHER: <input style="width: 100%;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** February 13, 2012

**By:**

<b>NAME (PLEASE PRINT)</b> Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/7/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047508450000**

**API:** 43047508450000

**Well Name:** CWU 1478-22D

**Location:** 1214 FSL 2083 FEL QTR SWSE SEC 22 TWP 090S RNG 220E MER S

**Company Permit Issued to:** EOG RESOURCES, INC.

**Date Original Permit Issued:** 3/16/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Nanette Lupcho

**Date:** 2/7/2012

**Title:** Regulatory Assistant **Representing:** EOG RESOURCES, INC.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU0284A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>7. UNIT or CA AGREEMENT NAME:</b> CHAPITA WELLS
<b>3. ADDRESS OF OPERATOR:</b> 600 17th Street, Suite 1000 N, Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> CWU 1478-22D
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1214 FSL 2083 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 22 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047508450000
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>2/25/2013</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: March 04, 2013

By:

<b>NAME (PLEASE PRINT)</b> Vail Nazario	<b>PHONE NUMBER</b> 303 824-5590	<b>TITLE</b> Sr. Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/25/2013	



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047508450000

API: 43047508450000

Well Name: CWU 1478-22D

Location: 1214 FSL 2083 FEL QTR SWSE SEC 22 TWP 090S RNG 220E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 3/16/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
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- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Vail Nazzaro

Date: 2/25/2013

Title: Sr. Regulatory Assistant Representing: EOG RESOURCES, INC.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>3/4/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b>
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** March 10, 2014

**By:** 

<b>NAME (PLEASE PRINT)</b> Donna J Skinner	<b>PHONE NUMBER</b> 303 262-9467	<b>TITLE</b> Sr. Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/4/2014	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047508450000**

API: 43047508450000

Well Name: CWU 1478-22D

Location: 1214 FSL 2083 FEL QTR SWSE SEC 22 TWP 090S RNG 220E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 3/16/2010

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- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Donna J Skinner

Date: 3/4/2014

Title: Sr. Regulatory Assistant Representing: EOG RESOURCES, INC.



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 14, 2015

EOG Resources, Inc.  
600 17th Street, Suite 1000 N  
Denver, CO 80202

Re: APDs Rescinded EOG Resources, Inc. Uintah County

Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of May 14, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



43-047-50787 Lost Love 14-24  
43-047-50826 CWU 1482-26D  
43-047-50827 CWU 1483-26D  
43-047-50828 CWU 1484-26D  
43-047-50829 CWU 1485-26D  
43-047-50830 CWU 1486-26D  
43-047-50842 CWU 1475-22D  
43-047-50843 CWU 1476-22D  
43-047-50844 CWU 1477-22D  
43-047-50845 CWU 1478-22D  
43-047-50846 CWU 1479-22D  
43-047-51001 CWU 1393-26